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Falconer. The Baths of Bath

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THE BATHS

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MINERAL WATERS

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THE BATHS

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AND

MINERAL WATERS OF BATH.

BY

RANDLE WILBRAHAM FALCONER, M.D.,

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THE following pages contain a description of the admirable and extensive arrangements provided for the employment of the MINERAL WATERS OF BATH; together with brief notices of the impregnations and medicinal uses of the Waters, and of the Bath General or Mineral Water Hospital; the whole being prefaced with a general account of the early history of the Mineral Waters and Baths of Bath.

I beg to acknowledge the kindness of *Messrs. Manners* and *Gill*, Architects, in presenting me with the plans which illustrate this work; and my thanks are also due to *Mr*. *Thomas Hilliar*, a former talented student of the Bath School of Art, for the drawing of a portion of the ornamental work, mentioned at page 13, which decorates the Hot Bath.

R. W. F.

22, Bennett Street, Bath.

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INTRODUCTION.

No statement deserving of credit has been preserved regarding the discovery of the Hot Mineral Waters of Bath. The account given by Jones, in his Bathes of Bathes Ayde, which attributes their creation to "Bladudus Magus, that wyse Magicyan;" and also Wood's statement in his Description of Bath, which declares their detection to have been effected by Bladud and his swine;—are examples of those legendary histories, with which it is attempted to supply the want of authentic records. If any truth exists in such legends, it is generally extremely difficult to disentangle it from what is fictitious.

It is thought by some, whose opinions are entitled to respect, that a British settlement once occupied the site of the present town of Bath, and that through the obscurity which envelopes its history, the outlines of an extensive city are traceable, which was distinguished above all those of the West; and hence, it is inferred as probable that its inhabitants did not neglect the mineral waters of the locality.

It is, however, more likely that the British occupied the elevated positions in the neighbourhood, where remains of their habitations are yet traceable; and that the hot waters of the valley formed a morass, the overflowings of which were poured into the river Avon; still, it must be conceded that if they did inhabit the valley, all indications of their dwellings would be eradicated by subsequent occupants.

The period at which the history of Bath and the Bath Waters can be truly said to commence, is with the Roman occupation of the locality of the present city, which, according to *Warner*, was A.D. 44, or subsequent to A.D. 50 in the opinion of *Whitaker*. The presence of the Romans is indicated by many remarkable remains of

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their workmanship, which have been found and preserved, and among these are the ruins of buildings of magnitude and great beauty, erected in the vicinity of the springs, portions of which contribute to form one of the richest and most interesting collections of Roman Antiquities in England.[•] These, however, are but the remains of a still larger collection which was in existence more than two centuries ago.

One of the most important discoveries of a Roman building, connected with the use of the hot waters, was the finding in 1755 of the ruins of a Bath, of considerable size, in the position at present occupied by Kingston Buildings and Baths, near the Abbey. These remains were described by Dr. Lucas. + and subsequently by Dr. Sutherland, 1 in 1763; and an account of them, which is too extended to admit of quotation, may also be found in Collinson's History of Somersetshire, vol. i. p. 9, or in Warner's History of Bath, p. 22. Some idea of the size of the building in which the baths were contained, may be formed from the statement that "they occupied an area 240 ft. from east to west, and 120 ft. at the broadest part, from north to south, that they were highly decorated with tesselated pavements, columns, pilasters, and every ornament of classical architecture. § These baths, it is probable, were destroyed by the Saxons, who succeeded the Romans in their occupation of Bath, and their ruins must subsequently have escaped notice, inasmuch as at eight feet below the surface, but still considerably above them, several stone coffins, containing remains of persons of both sexes, and coins from the mints of several Saxon kings, were simultaneously discovered. Additional remains of these Baths were discovered in 1799 and in 1803. To this subject it will be necessary again to refer.

* These remains, the property of the Corporation of Bath, are placed under the care of the members of the Bath Royal Literary and Scientific Institution.

† "An Essay on Waters," Part III., p. 222.

‡ "Attempts to revive ancient Medical Doctrines relative to Waters, &c." Lond. 1763.

§ Warner's "New Guide through Bath," p. 29; 1811.

|| There was a mint at Bath. *Vide* "On Coins issued from Somersetshire Mints," by the Rev. T. F. Dymock—Somersetshire Arch. and Nat. Hist. Soc. Proceed. for 1849-50, p. 12.

The Roman city of Bath is generally believed to have been named Aque Solis. "Waters of the Sun :" but there is some foundation for considering that the name may have been Aque Sulis: the first word in both cases being probably the same as the Celtic Ac or Acq, and Sulis, from the goddess Sul, whose name appears upon one of the altars discovered in Bath.* The names which the Saxons gave to the city founded by the Romans of Hat Bathan, and Akemancesstre, sufficiently indicate both the nature and efficacy of the waters; and moreover what we know of their habits, tends to confirm the belief that they paid considerable attention to the employment of the "Osric built a monastery at Bath (A.D. 676), and thermal springs. visited its hot waters; and Offa, a century afterwards, made it the residence of his court for some time. Athelstan and Edgar also delighted in the use of its medicinal springs; and indeed almost all the Saxon kings honoured Bath, either with their presence, or enriched it by their munificence." + A bath seems to have been provided from very ancient times for the use of royal visitors, since the name King's Bath occurs as early as the beginning of the thirteenth century.

John de Villula, Bishop of Bath and Wells, who died in 1122, richly endowed the church of St. Peter (the Abbey) in 1106; and for the convenience of the monastery, built two new baths within its precincts, one of which, called the Abbot's math, he gave to the public use, and the other for the prior. "He did not," says Lucas, "rebuild those of the Romans, the foundation and ruins of which were buried under his palace; but he enclosed the heads of the chief springs then known, with strong though rude cisterns, which remain, with very little improvement, to this day." *Wood* states that both the above baths were given to the public; this took place perhaps at a later period. The baths went by the name of the Abbey Baths for some time, and were supplied with water from the spring in the King's Bath. John de Villula, also erected a consid-

* Vide "Civil Wars of Rome, &c.," by Geo. Long. Series i., p. 86; Notes, p. 239.

† Warner's History of Bath, p. 316, and note.

‡ "An Essay on Waters," part iii., pp. 243, 244.

§ "Leland's Itinerary," by Hearne, vol. ii., p. 38. 1744.

erable edifice for his own residence, which was called the Abbey House (afterwards known as the Royal Lodgings)*-which was demolished in 1755, and its foundations removed, during which process, the stone coffins and coins were found, and also the remains of the Roman baths before-mentioned. At this time the spring which supplied the latter baths was accidentally discovered. On the site of the Abbey House, new baths were built by the Duke of Kingston, in 1763, which for some time were known as the Abbey, or Roman Baths; at present as the Kingston, or Old Roman Baths, notwithstanding there is not any reason to believe that traces of the latter are to be found, excepting probably the channel through which the hot water is conveyed from the spring to the baths. Derrick, in one of his letters, writing of these baths, says, "They will be of vast utility here; for the other baths, being uncovered, and exposed to all weathers, and every eye, are therefore disagreeable to many people."+

In 1138, Robert, Bishop of Bath and Wells, founded a hospital for Lepers, and dedicated it to St. Lazarus, attaching to it at the same time a bath, called the Lepers' or Lazours' Bath; it was supplied by the overflowings of the spring in the Hot Bath, to which it adjoined. Johnson, in his work on the Bath Waters, published in 1634, mentions this bath. It was still to be seen, but little used, in 1773; the period at which it was destroyed is uncertain. The Hospital was a small building, furnished with seven beds, situated at the corner of "Nowhere Lane," now Hot Bath Street, and was so near to the bath that the inmates were under little or no difficulty in passing from one to the other.[‡]

The baths remained in the hands of the Priors and Monks of the Benedictine Monastery of Bath, until the dissolution of religious houses in the time of Henry VIII., and in consideration of their receiving the proceeds, which arose from the use of the baths, they were to keep them in repair, fit for the reception of Royalty. In 1235, however, it appears that they neglected their duty, receiving

* Vide Gilmore's Plan of Bath, with Engravings of some of the Principal Edifices. 1694.

† Letters, vol. ii. p. 111.

‡ Wood, "Description of Bath," vol. 2, p. 306.

the profits, but leaving the baths to decay, in consequence of which, they were amerced in the sum of £13 11s., the estimated cost of the repair of the King's houses, and of the King's Bath.

Leland, not long before the dissolution, gave the following account of the Baths:—"There be 2 Springes of whote Wather in the West South West Part of the Towne. Wherof the bigger is caullid the *Crosse Bath*, bycause it hath a Cross erectid in the midle of it. This *Bath* is much frequential of People diseasid with Lepre, Pokkes, Scabbes, and great Aches, and is temperate and pleasant, having a 11 or 12 Arches of Stone in the sides for men to stonde under y^n tyme of Reyne. Many be holp by this *Bathe* from Scabbes and Aches.

"The other *Bathe* is a 2 hunderith Foote of, and is lesse in cumpace withyn the Waulle then the other, having but 7 Arches y^n the Waulle. This is caullid the *Hote Bathe*; for at cumming into it, Men think that it wold scald the Flesch at the first, but after that the Flesch y^s warmid it is more tolerable and pleasaunt.

"Both these *Bathes* be in the midle of a lite streat, and joine to *St. John's Hospitale*; so that it may be thought that *Reginalde*, bishop of *Bathe*, made this Hospitale nere these 2 commune *Bathes* to socour poore people resorting to them.

"The Kinges Bathe is very faire and large, standing almost in the midle of the Toune, and at the West End of the Cathedrale Chirch.

"The area that this Bathe is y^n is cumpassid with an high Stone Waulle.

"The Brimmes of this *Bath* hath a litle walle cumpasing them, and in this Waul be a 32 Arches for Men and Women to stand separately y^n . To this *Bath* do Gentilmen resort.

"Ther goith a sluse out of this *Bath*, and servid in Tymes with Water derivid out of it 2 Places in *Bath* Priorie usid for *Bathes*: els voide; for in them be no springes.

"The Colour of the Water of the Baynes is as it were a depe blew Se Water, and rikith like a sething Potte continually, having sumwhat a sulphureus and sumwhat a pleasant savor.

"The Water that rennith from the 2 smaul *Bathes* goit by a Dike into *Avon*, by West bynethe the Bridge.

"The Water that goith from the *Kinges Bath* turnith a Mylle, and after goith into *Avon* above *Bath*-bridge.

"In all the 3 *Bathes*, a man may evidently se how the Water burbelith up from the Springes."*

In 1542, Henry VIII. granted the "late monastery or priory of Bath," with all the property appertaining to it, to Humphrey Colles and his heirs: Colles disposed of it to Matthew Colthurst, whose son, Edmund Colthurst, gave the Abbey and a portion of the land adjoining it, to the Mayor and Citizens of Bath; while the Abbey House and remainder of the property, he sold to Fulk Morley, in 1569, from whom it descended to the Duke of Kingston, and from him to the late and present Earl Manvers—who thus owns the Kingston or Old Roman Baths, erected on the spot once occupied by the Abbey House. The King's, Cross, and Hot Baths appear to have been conveyed with the Abbey to the Mayor and Citizens of Bath.

For a considerable period the Bath waters had enjoyed great celebrity. It appears, however, from the statements made by Dr. William Turner, who succeeded John Goodman, as Dean of Wells, in 1550, in the preface to a work published by him in 1562, entitled "A Booke of the Natures and Properties, as well of the Bathes in England as of other Bathes in Germany and Italye," &c .- that they were neglected, and their condition ruinous. He observes, that "there is enough money spent on cock-fightings, tenes players, parkes, bankettings, pageantes, and playes, serving only for a short time the pleasure oft tymes, but of privat persones which have no nede of them. But I have not hearde tell that any rich man hath spent upon these noble bathes, beyng so profitable for the hole commonweithe of England, one grote these twintye years." Dr. Turner made several suggestions for the improvement of the baths, and recommended the formation of a bath of the hot water for horses-which was done according to Wood about the year 1597. A large pond was made on the southern side of St. James's Church, without the city walls, near Ham Gate, to receive the waste water of the King's Bath. "and this was for sometime used as a bath for horses, and called the Horse Bath." +

In 1572, Dr. Jones published "The Bathes of Bathes Ayde," in which he proposed to supply the deficiencies in Dr. Turner's book. In speaking of the waters he says—"Seeing that amonge all the

^{*} Leland's Itin., by Hearne, Vol. 2, pp. 30, 31.

[†] Description of Bath, vol. i., p. 207.

most marualouse workes of nature, there is none more excellent, none more anayleable to the helpe of the disseased, and amendmente of the enfeebled partes of man, then the Bathes naturall of the Cittie of Bath, if they be rightly vsed, orderly observed, and as need requireth, frequented," &c.

In 1590, Queen Elizabeth granted a new charter to the city of Bath, wherein she confirms the possession of the water and baths in the following terms: "And whereas the Mayor and Citizens of the aforesaid city now hold, occupy, possess and enjoy, to them and their successors, the same city, with the appurtenances, and all the waters and baths there, &c., &c.; know ye, as of our abundant grace, certain knowledge, and mere motion, we have granted and confirmed, and by these presents, for us, our heirs, and successors, do grant and confirm to the aforesaid mayor, aldermen, and citizens, and to their successors, all and singular such and the same waters, baths," &c. Shortly after this charter was granted, the corporation of the city rebuilt the Hot and Cross Baths, which had become decayed; and about 1598, Mr. Bellot built the bath adjoining the King's Bath, which, in 1615, was named the Queen's Bath, owing to Anne, the Queen of James I., making use of it. The management however of the baths seems to have been neglected by the corporation, and all sorts of irregularities were practised in them, so as to prevent their public utility. In order to correct these abuses, several persons, with whom were associated the members of the corporate body, petitioned King James I. to grant them power, to check the irregularities which took place in the baths; but the king's death occurring soon after the presentation of the petition, nothing was done to terminate them: and in 1632, Dr. Jordan, in the second edition of his "Discourse on Naturall Bathes" &c., complains in his preface of still existing annoyances, whereby the baths "are not able to display their vertues, and doe that good for which God hath sent them to us." In 1646, the corporation framed a code of by-laws to remove nuisances, and establish order in the city. These by-laws were confirmed in 1650, after a satisfactory trial had been made of them; "then," says Wood, "people began to flock to Bath for recreation, as well as for the benefit of the waters," and in 1668 we have a notice of them in Pepy's diary, June 15th, "Looked into the Baths, and find the King and Queen's full of a mixed sort, of good and bad, and the Cross only almost for gentry,

So home with my wife, and did pay my guides, two women, 5s.; one man, 2s. 6d.

From about this time to the present, the history of the waters, and the beneficial effects produced by them, will best be traced in the numerous works which have been written upon them.

It may here be mentioned that the municipal seal of Bath, represents a bath enclosed by an embattled wall, with a small building in the centre, having three niches, or alcoves; the whole encircled by the following legend, "*Sigillum Civium Urbis Bathonix*." The date of this seal is undetermined, but an impression of it was found by the late Mr. Doubleday, of the British Museum, attached to a deed of the time of Edward the Third (1327-1377), in the Tower of London.

It was at first proposed to have concluded these introductory remarks with a complete list of the treatises upon the Bath Waters, but it was found to be so large that the intention could not be conveniently carried out.

The following catalogue may however prove interesting, and properly terminate this brief sketch of the History of the Waters.

A list of some Authors of Works on the Bath Waters from 1557 to 1857:-

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From 1557 to 1607.--W. Turner, M.D.; John Jones, M.D.
From 1607 to 1667.--Tobias Venner, M.D.; E. Jorden, M.D.; T. Johnson, M.D.
From 1657 to 1707.--Thos. Guidott, M.B.; H. Chapman; R. Pugh; E. Pratt, M.D.; H. Stubbe; R. Pierce, M.D.; J. Maplet, M.D., &c., &c.
From 1707 to 1757.--J. Quinton, M.D.; W. Oliver, M.D.; G. Cheyne, M.D.; J. Wynter, M.D.; D. Kinneir, M.D.; J. Summers, M.D.; G. Randolph, M.D.; T. Smollett, M.D.; R. Charleton. M.D.; W. Baylies, M.D., &c., &c.
From 1757 to 1807.--A. Sutherland, M.D.; J. N. Stevens, M.D.; J. Rutty; C. Lucas, M.D.; William Falconer, M.D.; Sir E. Barry. M.D.; D. Lysons, M.D.; J. Elliott, M.D.; W. Corp, M.D.; A. Wilson, M.D.; Sir Geo. S. Gibbes, M.D., &c.
From 1807 to 1857.--Wm. Falconer, M.D.; C. H. Wilkinson, M.D.; E. Barlow, M.D.; J. G. Mansford, M.R.C.S.; J. H. Spry, M.D.;
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A. B. Granville, M.D.; J. Tunstall, M.D.; &c.

THE BATHS. ETC.

CHAPTER I.

THE BATHS AND PUMP ROOMS.

THE Mineral Springs, Pump Rooms, and Baths of Bath, are situated in the southern part of the town, in the vicinity of the Abbey Church, not far distant from each other, and easily accessible from all parts of the city.

There are four Springs, two Pump Rooms, and four Establishments for Public and Private Bathing. All of these are the property of the Corporation, with the exception of the Kingston Spring and Baths, which are the property of Lord Manvers. One spring supplies the Fountain in the Grand Pump Room, the King's and Queen's Public, and Private Baths, the large Tepid Swimming Bath, and the Baths in the General or Mineral Water Hospital. A second supplies the Cross Bath; and the third, the Hetling Pump Room, the Royal Private Baths, the Hot Public Bath, and a bath in the United Hospital. In former days, the last mentioned spring,

also supplied the Leper's Bath, which was still remaining in 1773, but now no longer exists. If an additional supply of water be required at the Royal Private Baths, as is sometimes the case, it is obtained from the spring at the King's Bath. The spring at the Kingston Baths supplies those Baths and a small Pump Room adjoining.

THE GRAND PUMP ROOM.

(Plan I.)

This room, erected in 1796, under the direction of Mr. Baldwin, the City Architect, is situated in the Abbey Yard, adjoining the King's and Queen's Public and Private Baths. Its architecture is Corinthian; it is eighty-five feet in length. fifty-six feet in breadth, and thirty-four feet in height, affording ample space for promenading, to those who drink the waters. In the recess at its eastern end is a marble statue of Beau Nash, executed by Prince Hoare; the right hand of the figure rests upon a pedestal, on the face of which is delineated a plan of the Bath General or Mineral Water Hospital, towards the establishment of which national charity he greatly contributed, by his exertions, in obtaining donations of money, and of which he was one of the Treasurers from the time of its being opened for the reception of patients, in 1742, until his decease in 1761. At the western end is an orchestra for the band. There are three entrances on the

northern side; opposite to the central, or principal entrance, is the Fountain, which is supplied, direct from the Spring, with a continuous stream of mineral water, at a temperature of 114° F. This room is open on week days from 8 a.m. to 4 p.m., during the whole year : on Sundays from 8.30 a.m. to 9.30 a.m., and from 1 p.m. to 3 p.m. throughout the year. During the above hours an attendant is always present at the fountain, where every requisite arrangement is made for drinking the waters. At the south-western end of the Pump Room a communication has recently been made with

THE KING'S AND QUEEN'S PUBLIC AND PRIVATE BATHS. PRIVATE BATHS AND DOUCHES. (Plan I).

The Private Baths occupy the upper story; the Public Baths are on the basement story; they were built according to the plans of Mr. Baldwin, the foundation stone having been laid May 10, 1788. On the upper story there are four baths, of which one is a Reclining Bath, lined with white porcelain tiles, fitted with taps, by means of which it is supplied with hot and cold mineral water; the other three are large baths similarly lined, each of which will hold 806 gallons of water, with a depth of four feet six inches. In each there is a Douche for the local application of the water, if required, while the bather is in the bath. They are sufficiently large, to afford space, for the free movement of the bather, and occupy the greater portion of the Bath-rooms, which are twelve feet long, seven feet wide, and eleven feet high. Within a small semi-circular apse, is situated, the deeper portion of the bath, with which is connected a flight of steps, forming a part of it. The hot water is thrown up from the bottom of the bath, and the cold water is turned on from a tap above the steps, and, as it flows over them into the bath, mingles with the hot water. To all the baths convenient and comfortable dressing rooms and closets are attached, containing every requisite for the invalid. In addition to the baths, there are also two

DOUCHE ROOMS.

(Plan I.)

These rooms are each connected with a dressing room, and are for the local application of the water, or "dry pumping," so called, in contrast with the douche used in the bath. The water when applied by these douches is propelled by a pressure of two pounds and a quarter on the square inch, when the valves are not wieghted. When the smaller weights are used the pressure is equal to five pounds and a half on the square inch; and when the larger weights are employed, the pressure amounts to eight pounds and three quarters on the same space. The distribution of the water may be regulated by the attachment of large, small, or perfo-

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rated nozzles to the douche pipe, so that a larger or smaller stream may be made to descend on the part to be douched, or it may be more gently applied by means of the perforated or rose nozzle.

SHOWER AND VAPOUR BATH.

(Plan I.)

There is a Shower and a Vapour Bath in this establishment. In the former, the mineral waters are used; and it is so arranged that the height from which the water descends can be regulated as occasion may require. The vapour of the latter is not derived from the mineral waters but from the water in the boiler of the steam engine, which raises the mineral water from the springs to supply the Private Baths. It forms a useful adjunct to the Mineral Baths.

There is also a closet heated with hot air, from which warm towels, flannel, and linen, are supplied to the bathers. Other arrangements may be seen by referring to the plan of the building.

The water may here be obtained at any temperature up to 1159 Fahr.

From March until September these baths are open to the public from 6 a.m. to 10 p.m.; and from September to March, from 7 a.m. to 10 p.m. On Sundays, throughout the year, from 7 a.m. to 9.30 a.m.; and from 1 p.m. to 3 p.m.

PUBLIC BATHS. (Plan II.)

These baths are reached by descending a spiral staircase from the vestibule of the Private Baths. The KING'S BATH, which is open to the sky, is the larger of the two. It is somewhat more than fifty-nine feet in length, and nearly forty in breadth. When filled, it is computed to contain 51,450 gallons of water, with a depth of four feet and a half.

On the northern side of this bath is a corridor, out of which are entrances to dressing rooms, which either communicate with the bath, or contain in them Reclining Baths. These rooms which communicate with the bath were formerly called "slips." At the eastern end of this corridor there is an inclined passage for wheel chairs, which is approached by an entrance in Abbey Place, communicating with the Abbey Yard. (A.A. Plan II.) On the northern side of the bath there are three large Reclining Baths, and three flights of steps leading from as many dressing rooms into the water. One of these flights of steps communicates directly with the bath, while the other two lead into large recesses having partly glazed doors, which may be closed so as to convert the recesses into distinct baths, or the bather may pass through them into the open bath. Thus an opportunity is afforded to the invalid, of enjoying either a private or an open bath, as the taste may incline.

On the same side, but within the boundary of the bath, are three recesses furnished with seats for the convenience of

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bathers. On the eastern side, there are other recesses, within a colonnade, which admit of being partially closed in: the centre one contains a douche. On the south side there is a stone chair and bench, the former bearing the following inscription, "Anastasia Grew Gave this 1739." Above the stone chair is a mural tablet recording the gift of an ornamental balustrade for the bath, by Sir Francis Stonor, in 1697,* and not far distant, a figure of Bladud in a sitting posture, and below it an inscription on copper, dated 1699, the perusal of which will suggest some amusing speculations to the bather. According to Stukeley this statue was formerly in the North Gate above the arch, where it represented King Edward III. It was taken down from thence and somewhat altered, by a common mason, to represent King Bladud, and then transferred to the King's Bath. Many of the brazen rings, attached to the walls of the bath, commemorate the benefits received by the donors from the use of the waters; others were placed there for the benefit of bathers by the Corporation. According to Guidott, there were 208 rings in all the Baths, of which not twenty remain at the present time. Some, it is said, were sold for old brass. On the western side are two flights of steps leading from dressing-rooms : one near the Queen's Bath communicates with the open bath, and the other with a recess within a colonnade, closed in chiefly with glass, from which, however, the bather can pass into the open

* The above date is on the Tablet; Guidott gives the date, 1624.

bath. Near the colonnade is a pump attached to the wall, by means of which, mineral water for drinking, may be obtained direct from the spring, by those who are bathing.

In the centre of this bath is a well, eight feet seven inches deep; from its bottom, the hot spring supplying the bath rises through a large perforated iron plate covering the well, and through smaller openings around it, and also in other parts of the pavement, so as to preserve as much as possible, an equable temperature, throughout the whole extent of the bath. The space around the well is railed in ; and here, where the water rises at times with considerable force, and discharges large volumes of gases, the bath is the hottest. (Plan II.) The whole body of water in the bath is continually undergoing a change, as openings are provided, in the sides of the bath, at the water level, so as to convey away the superfluity. The quantity of water yielded by this spring, is estimated at two hogsheads and a half a minute. Its temperature at the bottom of the well is 117° F.; within the enclosed space. 116° F.; while in different parts of the bath, it ranges from the last mentioned degree, down to 100°, or 98° F., according to the distance from the exit of the spring.

At the time when Anstey wrote his "New Bath Guide" this bath was frequented by ladies dressed in the extreme of fashion, and gentlemen in powdered hair, and bag wigs, sociably enjoyed the bath together.

THE QUEEN'S BATH.

(Plan II.)

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The Queen's Bath, formerly known as the NEW BATH, and constructed at the cost of Mr. Bellot, in 1597, received its present name upon its being used by Anne, the Queen of James I.; after which it was enlarged, and a cross erected in the middle, having on its summit a figure of the Crown of England, surmounting a globe, on which was inscribed, in letters of gold, "ANNA REGINA SACRUM."* The Queen forsook the King's Bath in consequence, it is said, of a circle of light appearing on the surface of the water during the time she was bathing in it. Such an appearance could only be accounted for on the presumption that phosphuretted hydrogen had been evolved from the water. This cross appears to have been removed some time previous to 1732. This is an open bath, and adjoins the King's Bath on its southern side, being separated from it by a moveable wooden partition. It is supplied from the spring in the King's Bath, and is somewhat more than twenty-seven feet square. When filled, it is computed to contain 18,215 gallons of water, having a depth of four feet and a half, the same as the King's Bath. On the southern side there are two dressing rooms with flights of steps from them communicating directly with the water, and adjoining one of them is a Reclining Bath. On the western side there are also two other dressing rooms com-

* Warner's History of Bath, p. 32.

municating in a similar manner with the water. On the northern and eastern sides are arched recesses, and stone benches within them, and several rings, bearing inscriptions, attached to the walls. The temperature of this bath is variable, but it may be estimated at from 100° F. to 102.

The King's and Queen's Public Baths are open from March to September, from 6 a.m. to 10 p.m.; and from September to March, from 7 a.m. to 10 p.m.; and on Sundays, from 7 a.m. to 9.30 a.m., and from 1 p.m. to 3 p.m. Each bath is open to male and female bathers on alternate days, as follows :--King's Bath-Gentlemen-Mondays, Wednesdays, and Fridays; Ladies-Tuesdays, Thursdays, and Saturdays; Queen's Bath-Gentlemen-Tuesdays, Thursdays, and Saturdays; Ladies-Mondays, Wednesdays, and Fridays.

Above and on the eastern side of the Queen's Bath is a large reservoir for cooling the hot mineral water (Plan II.), which was planned in 1829 and completed in 1833. It measures forty-five feet in length by twenty-five feet in breath, and is four feet eight inches deep. It contains 32,000 gallons of water, which is used for regulating the temperature of all the private baths. The water is cooled by means of a jet, thrown up by the steam engine, in the centre of the reservoir, which receives it as it falls.

Near this reservoir is a small building containing the engine, which draws the water direct from the spring, and propels it into the King's and Queen's Private Baths, and supplies the douches; while, by means of a smaller engine, the water is supplied to the Fountain in the Pump Room.

The chief entrance to the King's and Queen's Public and Private Baths faces Bath Street, at the end of which is

THE CROSS BATH.

(Plan III.)

This is a cheap public bath. It is of an irregular form: its greatest length is twenty-three feet, and greatest breadth nearly twenty-two feet, and is partly covered over. During the recent improvements this bath has been increased two feet in length, and one foot in breadth. When filled, it is estimated to contain 11,350 gallons of water, with a depth of four feet and a half. The spring supplying it rises from a depth of fourteen feet below the flooring of the bath, and yields half a hogshead of water a minute. The temperature of the water at the depth above mentioned is 104° F.; that of the bath generally, 96° or 98° F.

The present edifice was erected from plans by Mr. Baldwin, the City Architect, and within it there was on the northern side a small pump room, subsequently removed, and the space used for reclining baths, which have been recently replaced by small private dressing rooms; and instead of two public dressing rooms originally adjoining the bath, there have been made, twelve private dressing rooms, and one small public dressing room. On the southern side is a figure of Bladud in alto relievo. In the centre of the bath there formerly stood an elaborate structure surmounted by a cross, which was erected by John Drummond, Earl of Melfort, Secretary of State to James II., in commemoration of the Queen having used this bath, with happy results, in 1688. An engraving of the cross may be seen in Guidott's work. "De Thermis Britannicis," p. 208, and a full account of it in Wood's "DESCRIPTION OF BATH," Vol. II., p. 259; 1765. It was removed in 1783, the action of the water having rendered its foundations insecure. It has been generally supposed that the bath derived its name from this cross, but it was so called in Leland's time. (Vide Introd. p. 12.) Around this bath are arranged thirteen convenient dressing rooms, and a small common one, with closets adjoining. Bathers bring towels with them, or they are supplied by the attendant, on a small additional charge. It is open from March to September, from 6 a.m. to 9 p.m.; and from September to March, from 7 a.m. to 4 p.m. Male bathers only are admitted.

THE HETLING PUMP ROOM.

Near to the Cross Bath is the Hetling Pump Room, a small, neat, and convenient room, where the water is supplied to invalids by means of a pump, which draws it direct from the spring, which rises into a reservoir, under the adjoining street. The water is delivered from the pump at a temperature of 114° F.

THE ROYAL PRIVATE AND HOT BATHS. (Plan IV.)

Immediately opposite to the Hetling Pump Room are the Royal Private Baths and the Hot Bath.

On the outside of the former and within a recess open to the street is a Pump, from which the hot mineral water is gratuitously supplied to any person who may wish to drink or carry away small quantities of it to those who are invalided at home. It is intended for the advantage of those only, who are unable to subscribe to the Pump Rooms. There is an attendant at the pump from 7 a.m. until 4 p.m., or even to a later hour, occasionally, whose duty it is to supply the water to those who come for it.

нот ватн. (Plan IV.)

By referring to the plan, it will be seen that the Hot Bath, which is an open bath, is situated in the centre of the Royal Private Baths. The entrance to it is at the southern end of Hot Bath Street. On the right of the entrance

is a room containing a Reclining Bath; and adjoining it, a dressing room with a Douche, from which are steps leading down into the Hot Bath. On the left there is another dressing room, also communicating with the Hot Bath. This bath is of an octagonal form, and its architectural embellishments are well deserving of notice. A gentleman of great taste, C. Empson, Esq., a resident in Bath, has given the following description of this building, which was erected by John Wood, Jun. :--- "The walls are grey, of uniform tint; bold mouldings and cornices support balustrades, separated by sunk panels, and supporting an entablature which demands especial attention. From each corner, supported by rings, through which the folds pass, are folds of drapery, bearing pendants of sculptured foliage, fruit, and flowers in the boldest relief, and chiselled from the solid stone. It is possible to name the fruit and flowers-melons, grapes, peaches, pomegranates, roses, sun-flowers, lilies, acanthi, and other less familiar plants-not indeed botanically correct, but artistically treated -not conventionally, but grand in manner, and perfectly original in adaptation and arrangement." (Plan V.) At the four corners of the bath there are small seats for the bathers, and there is also a Douche Pump on its northern side. The temperature of the spring, which rises seventeen feet below the pavement of the bath, is 120° F., while the temperature of the water varies in different parts from 105° F. to 102° F. The spring yields one hogshead and a half of water a minute, and supplies the Royal Private Baths, as well as the Hot Bath,

and also a bath in the Bath United Hospital, in its immediate vicinity. When full, the Hot Bath is computed to contain about 9,570 gallons of water, having a depth of four feet and a half. The out-patients of the United Hospital have free access to this bath by ticket; and the same privilege is extended to invalids, who are unable to defray the expense of a bath, provided they bring with them an order signed by the Mayor of Bath, or by any Magistrate who is a member of the Corporation, who will grant such order, on the presentation of a certificate from a resident medical practitioner, stating that the applicant's case is a fit one for the use of the Waters.*

Males are admitted on Tuesdays, Thursdays, and Saturdays, and also on Sundays; and Females on Mondays, Wednesdays, and Fridays. It is open from March to September, from 6 a.m. to 9 a.m., and from September to March from 7 a.m. to 9 a.m.; on Sundays from 7 a.m. to 9.30 a.m. The out-patients of the Bath United Hospital, and those having certificates are admitted from 9 a.m. to 12. After 12 o'clock the bath is emptied.

THE ROYAL PRIVATE BATHS AND DOUCHE.

(Plan IV.)

The chief approach to these baths is under a semicircular

* Printed forms of the certificate may be obtained on application to the Superintendent at the Royal Private Baths. covered way, from an entrance at the northern end of Hot Bath Street, opposite to the Hetling Pump Room. There are four principal Baths.

The first, the BLADUD, or MARBLE BATH (Plan IV. Figs. 1.1) is a small bath, somewhat approaching in form to a reclining bath, lined and paved with marble, the surrounding space being laid down with encaustic tiles, and the rest of the bath-room decorated in keeping with its other arrangements. There is a dressing-room adjoining it, with every requisite convenience. The door, which closes in the latter, room, separates it and the bath-room, from the rest of the building.

The second, or ALFRED'S BATH (Plan IV., Figs. 2.2) contains, when filled, 724 gallons of water, with a depth of four feet and a half, and has a dressing-room attached to it.

Adjoining this room is another dressing-room communicating with a DOUCHE ROOM (Plan IV., Figs. 3.3), having all the necessary arrangements for the use of the Douche, the water from which is discharged by a pressure equal to six pounds on the square inch.

Beyond this is a dressing-room, connected with the third or CHAIR BATH (Plan IV., Figs. 4.4), containing an armchair, attached to a crane, by means of which a helpless invalid can be safely let down into, and raised up from, the bath. This bath, when filled, contains 702 gallons of water, with a depth of four feet and a half.

Adjoining this bath is a dressing-room, having in it a

SHOWER BATH (Plan IV. X.), the cistern supplying which may be filled with any quantity of water, from one to twentyeight gallons.

This room is also connected with a small chamber, containing

THE ENEMA OR LAVEMENT APPARATUS.

(Plan IV., Figs. 5.5.)

This apparatus is supplied from a cistern, at some height from the floor, which will hold fourteen gallons of water, exerting a pressure of from two pounds three quarters to three pounds on the square inch, and discharges two quarts of water a minute. The temperature of the water may be estimated at 110°F. To return to the

PRIVATE BATHS.

Adjoining the last-mentioned room is the fourth, or ED-WIN'S BATH (Plan IV. Figs. 6.6), which, when filled, contains 716 gallons of water, and has a depth of four feet and a half. Attached to it is a dressing-room.

All the above-mentioned baths in this establishment have arrangements for the use of the douche in them.

Near this bath is a small lobby leading into a corridor, at the upper end of which is a room containing a large RECLINING BATH (Plan IV., Fig. 8.) This room also serves as a dressing-room to an adjoining bath, which holds, when filled, 600 gallons of water, with a depth of four feet and a half; next to this bath is a second of like capacity, also with a dressing-room. At the opposite end of the passage is another dressing-room and Bath, the latter containing, when filled, 698 gallons of water, and of the same depth as the two previously mentioned.

The four principal Bath-rooms are of a T shape, and measure nearly twelve feet in length; the lesser width is ten feet, and the greater width twelve feet; and are nearly twelve feet in height. They are lined with white porcelain tiles, fitted with marble, and the flat surface around the bath is covered with slate. Two taps are placed above the steps into each bath, by one of which hot water is admitted, by the other cold water, the two streams mixing as they flow down the steps into the bath. The three other Bath-rooms are smaller: the baths, however, are of the same general forms as the principal ones.

There is in this establishment also a hot closet, for the supply of warm linen and blankets for the bathers.

TEPID SWIMMING BATH. (Plan IV.)

By turning to the right, after leaving the last-mentioned bath, a passage leads to the large Tepid Swimming Bath, which was built in 1829, after a design by Mr. Decimus Burton. Its form is an oval of sixty-two feet, by twentythree feet. On the eastern side are arranged six small dressingrooms, and one large common dressing-room (g.h.k.). From each of these rooms a flight of steps leads into the bath, which contains about 37,225 gallons of water, and is four and a half feet deep. The water is supplied from the spring in the King's Bath, and from the cold water reservoir; its temperature is 88° Fahr. The bath is lighted at the side by windows, and from above, by three lantern domes, with openings to the external air. There is a separate entrance to this Bath through the Piazza in Bath Street, opposite St. Catherine's Hospital.

All of the establishments for the use of the mineral waters underwent a thorough and complete repair in the years 1854 and 1855; the Corporation of the city having expended upon them at that time the sum of $\pounds3,000$.

The dressing-rooms have been greatly improved and newly furnished. They contain toilet-tables, looking-glasses, sofas (some of which are convertible into beds), and fire-places. They are also carpeted; and curtains are suspended within the doors, to exclude draughts from the bather while dressing; for whom every necessary arrangement is provided. The Baths and Dressing Rooms are all lighted in the evening with gas. By means of inclined planes adapted to the entrances, invalids may, if necessary, be wheeled in their chairs into the dressing-rooms, and from thence into the bath rooms; and every endeavour has been made to facilitate the employment of the waters whether as regards the arrangements which have been described, or the charges for their use.

It may be questioned whether there is any locality possessing a mineral spring which presents so many conveniences for its use as are to be found at the bathing establishments in Bath. It certainly does not appear, excepting perhaps in a few instances, that there are any baths in England, or on the Continent, where the bathers have such ample room for movement in the bath, or where so large a quantity of water is supplied to each bather.* It is well known that the private baths, at by far the larger number of continental spas, are not larger than ordinary sized hip baths, which do not equal in size the majority of the Reclining Baths at the King's Public Bath, or that at the Royal Private Baths.

PORTABLE BATHS.

The Bath Waters admit of being carried to any part of the town, in tubs made for the purpose; and an invalid who is unable to leave home, or is desirous of having a bath, late in

* From a recently published pamphlet, it appears that the quantity of mineral water, supplied for medicinal purposes at Vichy, amounts to 3,174 hhds. 38 gallons in a day; while the Bath springs yield 7,200 hhds., or more than double the quantity, in the same space of time. the evening, or indeed at any time during the day, may have the mineral water supplied at his residence, at a temperature only a little below 100° Fahr. It may also here be mentioned that the Bath Waters are bottled for transportation to distant places, and are, after a long trial in this form, found to be beneficial in those cases where the cold mineral water is preferable to the hot.*

* The water in bottles may be obtained from the Superintendant of the Corporation Baths, at the Royal Private Baths, near Bath Street.

CHAPTER II.

THE KINGSTON BATHS.

(PLAN VI.)

THESE Baths, which have been called, at different times, the Abbey, or Old Roman Baths, are situated on the southern side of the Abbey, in the rear of Kingston Buildings. The Baths formerly attached to the Abbey House were supplied with mineral water from the King's Bath Spring; but when that building was destroyed in 1755, and the Roman Baths discovered, the spring which supplied the latter was found at the same time, and now supplies the Kingston Baths. These baths (the first private baths established in the city) were erected by the Duke of Kingston; they were commenced in 1763 or 1764, and completed in 1766, and are the property of Earl Manvers. They underwent several alterations and improvements about 1810 or 1811, when rented by the late Dr. Wilkinson, who added apparatus for dry and wet pumping, and also a pump room, in Kingston House, with which there appears formerly to have been a communication with the Baths.

There are two entrances to these baths; one in Abbey Street, for wheel-chairs; and another in Church Street, from which there is a flight of steps leading down to the level of the establishment. In front of the immediate entrance to the Baths is an open area, on the right of which is an office, and adjoining it a small, but comfortable and conveniently arranged, PUMP ROOM, where the mineral water, drawn direct from the spring, may be obtained for drinking. Arrangements are, however, in progress for the conversion of a small building at the corner of Church Street and York Street, into a second and more accessible and convenient Pump Room. Opposite the Pump Room is the Attendant's Room. Just within the entrance to the Baths, on the left is a cistern in which the mineral water is collected for supplying the SHOWER BATH, the cistern of which is capable of containing sixty gallons of water.

The entrance passage leads into a vestibule lighted from above, having on the left a HOT CLOSET, in which the towels and linen for Bathers are warmed. On the right is a Dressing Room (No. 4), on one side of which is the SHOWER BATH and DOUCHE; and on the other a RECLINING BATH, with every requisite convenience for their use.

From the vestibule there are entrances to three Dressing Rooms (Nos. 1, 2, 3), each of which communicates with a BATH ROOM, and one with a Hot Air Bath. The Baths are all lined with white porcelain tiles, and, when filled, contain between five and six hundred gallons of water, with a depth of four feet and a half, and one is provided with a douche to be used in the bath. Baths can be obtained at any temperature up to 108° F., the cooled mineral water being employed to produce the lower temperatures.

The whole establishment is kept warm by means of the hot mineral water which is made to flow in channels under the flooring of the building. The Dressing Rooms are furnished with toilet tables; and, as well as the baths, are well lighted at night with gas. The whole establishment has within the last few years, undergone a thorough and complete repair, and is kept in a very neat and satisfactory state by the lessee, Mr. Penley.

The MINERAL SPRING which supplies these Baths was examined in 1770, at the request of the Duke of Kingston, by the late Dr. William Falconer,* and subsequently by the late Dr. Wilkinson, who, in 1811, published the result of his investigations.† No more recent analysis of the Spring has been made.

Both of the above-mentioned gentlemen agree generally as to the resemblance of the physical qualities of this spring with those of the King's, Hot, and Cross Bath water; the former, however, observes that "in taste the water nearly

* I am indebted to the courtesy of Earl Manvers for an opportunity of perusing the original document, which was drawn up for the private information of the Duke of Kingston.

† "Analytical Researches into the Properties of the Bath Waters, &c.," by Dr. Wilkinson. Bath, 1811.

resembles that of the King's Bath pump, except that it has not so much briskness, and the chalybeate taste is less perceptible." They also agree closely in their estimate of the quantity of solid contents of the water; the former stating it to be 10 grs., and the latter 9.97 grs., in each pint. In Dr. Falconer's MS., the several quantities of the different ingredients found in the water are not given; but Dr. Wilkinson states that in 400 grains of the gross residuum, there exists—

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22
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<u>400∙0</u> .*

"The air evolved at the spring consists," according to the same writer, "of 94 parts of nitrogen gas, 2 parts of oxygen, and 4 parts carbonic acid."[†]

The temperature of the water, at a recent trial, as it flowed into the bath, was 198°F.; by Dr. Wilkinson, it is stated to have been 114°F.; and by Dr. William Falconer, 104° or 105°F.

"Analytical Researches," &c., p. 55.
 † Ibid. p. 30.

CHAPTER III.

THE HOT MINERAL SPRINGS.

THE four Springs which supply the Corporation Pump Rooms and Baths, and the Kingston Baths, are situated in the lower part of the town; and probably derive their origin from one common source; the main stream from which does not seem to be far distant from the several points at which they appear above ground. The spring, however, which supplies the Kingston baths, flows in a distinct channel, inasmuch as it was unaffected by the accidental tapping, in 1836, of the common course of the water which flows into the Corporation Baths.

As the geological character of the locality where mineral springs are found, is a subject of interest, it may be well to give a general sketch of the disposition of the strata found in Bath, and its immediate neighbourhood. The limestone of which the town is built, is obtained from the beds of Great Oolite, quarried on Claverton and Combe Downs. Beneath this stratum is Fuller's earth, which appears on the northern side of the city, and on it the houses of Mount Beacon, and Richmond Hill are erected. Under this is the

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Inferior Oolite ; Lansdown Grove, Lansdown Crescent, and its two Wings, Winifred House, and Sion Place rest upon it. The declivity in front of Lansdown Crescent is formed of Inferior Oolitic sand, upon the lower limit of which, All Saints' Chapel is built. The continuation of this declivity, on which Park Street and Cavendish Place are erected, consists of Marlstone, which also forms the upper portion of the High Common, and part of Sion Hill. The remaining part of Bath, on the right side of the river Avon, is built upon Lias. The larger portion of Bathwick, the Parades, Green Park Buildings, and Norfolk Crescent, are upon Alluvial soil. In ascending the high ground upon the eastern and southern parts of the town, the Lias and Inferior Oolitic sand are crossed, until we gain the highest point when we reach the beds of Great Oolite on the Claverton Downs and behind Prior Park. Below the Lias are found the Upper Red Sandstones and Marls, and beneath these the Coal Measures.

It is not improbable that the hot springs find their way through fissures or dislocations in the latter, and the fact that particles of coal are found among the sand, thrown up by them, tends to give support to this impression. They have also forced their way through the Upper Red Sandstones, Marls, and Lias. Hot springs frequently occur near the line of junction of two geological formations, and those of Bath arise near the junction of the Lias with the superior Oolite.

The temperature of the water, of all the Springs, appears

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to have been constant, except on three occasions, which will be hereafter noticed. Compared with other Thermal Springs frequented for medicinal purposes they rank high, as the following list will shew :---

Borcetta, 171º F.	Vichy, 109° F.
Wiesbaden, 158° F.	BATH, KINGSTON BATHS,
Baden Baden, 153º F.	108º F.
Aix-la-Chapelle, 130° F.	BATH, CROSS BATH, 104º F.
Cauterets, 122° F.	Warmbrunn, 99º F.
Toplitz, 121º F.	Pfeffers, 99° F.
Gastein, 120° F.	Wildbad, 98° F.
BATH, HOT BATH, 120° F.	Aigues Chaudes, 95° F.
BATH, KING'S BATH, 117° F.	Schlangenbad, 88º F.

The temperature of the springs has been represented as arising from the action of a volcano beneath the town; but, on the one hand, the presence of thermal waters is by no means always connected with volcanic agency; and on the other, the geological features of the district indicate a tranquil deposition of the materials constituting the several strata, while the separation between the upper stratum of the high land of the valley is more properly to be ascribed to denudation than the throes of a volcano. It is more reasonable to attribute the heat of the Bath Waters to a cause, to which both thermal Springs and Volcanoes, may be satisfactorily referred, namely, the central heat of the Earth.

The quantity of water supplied by the Springs, appears to have been unaffected, since they first became subjects of investigation, up to the present time, by any meteorological

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change. The constancy of their flow into the baths, has been thrice interrupted; once by the sinking of a shaft in search of coal, in the neighbourhood of Batheaston, towards the East; again in 1811, when an escape of water took place from the springs, rendering it necessary to "puddle" the ground through which they rise; and more recently, in 1835, by the digging of a well 170 feet deep, at a distance, on the West, of 250 yards from the King's and Queen's Baths, and 200 vards from the Hot and Cross Baths. The stream of hot water, burst into, and overflowed the well, and the supply to all the baths, except the Kingston Baths, was materially diminished, as also the temperature of the water; the latter circumstance may be accounted for by the water in the baths cooling more rapidly when slowly supplied to them. The stream however was with some difficulty restored to its natural channel, but the baths now fill with the usual rapidity.

In small quantities, when recently drawn from the Spring, the water is clear, colourless, and sparkling. In large quantities, it presents a pale sea-green tint. It is free from any odour, and possesses a pungent, slightly saline, and somewhat chalybeate or inky taste, and though perhaps a little distasteful at first, the invalid with whom it agrees, in a short time, comes to relish, and even desire it.

The gases evolved from the waters, are Nitrogen, Oxygen, and Carbonic acid. The result of Professor Daubeny's investigations of the average amount of gas yielded by the King's Bath Spring shows that 267 cubic inches were evolved in a minute, or 222 cubic feet in twenty-four hours. The gas consisted of 97 per cent. of Nitrogen, 3 per cent. of Oxygen, and a variable quantity of Carbonic acid.

Several analyses of the Bath Waters have been made; those most deserving of attention are given in the following table. The water examined was in each instance drawn from the King's Bath Spring; the specific gravity being 1.002.

In an Imperial Gallon. 70,000 gra.	Phillips. 1806.	Scudamore. 1820.	Walcker. 1829.	Noad. 1844.	Merck and Galloway. 1848.
Carbonate of Lime	7.680	5.280	10.667		8.820
Carbonate of Magnesia					0.829
Carbonate of Oxide of Iron -	0.274	0.200	0.243	0.521	1.071
Carbonate of Soda				5.760	
Sulphate of Lime	86.400	98.320	81.624	96.240	80.052
Sulphate of Potassa			2.927		4.641
Sulphate of Soda	14.400	1.520	19.871		19.229
Chloride of Sodium - · -	81.680	12.240	15.122	27.456	12.642
Chloride of Magnesium		15.860	18.889	7.142	14.581
Alumina			0.150		
Silicic acid	1.960	1.920	3.283	3.860	2.982
Quantity directly observed -	142.894 144.125	184.840	146.676 147.622	140.479 149.072	144.018
Carbonic acid			7.60c.i.		26.45c.i. at 115°F.

Cuff is said to have detected Iodine in the waters; Noad remarks in reference to this substance, that "according to Stromeyer starch will detect free Iodine in a liquid containing $\frac{1}{40000}$ th of its weight of that principle; if therefore any Iodine does exist in the Bath Waters, it must be in a proportion, less than the above, and probably beyond the reach of chemical detection." Merck and Galloway found traces of both Iodine and Manganese. Gibbes first detected Silex in these springs, and Scudamore Magnesia.

The most abundant ingredients of the waters, taking the above analyses as a whole, are, 1. Sulphate of Lime, 2. Chloride of Sodium, 3. Chloride of Magnesium, and 4. Sulphate of Soda. The proportion of Iron which has been detected is comparatively small, still its taste is quite perceptible in the water, and its effects on the system are more decided than could have been expected from the small portion which has hitherto been detected by analysis. It appears somewhat remarkable that a larger quantity has not been discovered, since it is found plentifully, in combination with Lime and some Magnesia, deposited in the channels through which the water is conveyed, to the private baths, and also on the pavements of the public baths.

As regards the Carbonic acid found in these springs, the analysis by Merck and Galloway, gives somewhat more than three cubic inches of this gas, to each pint of water; while the earlier analysis by Phillips gives somewhat more, and that by Walcker somewhat less, than one cubic inch to the same quantity of fluid. Prof. Daubeney, found by his investigations, that the proportion of this gas was variable, amounting at one time to four, and at another to eleven per cent. of the whole volume of gas evolved from the spring.

It is to the presence of this gas, that the sparkling appearance of the water is due, when drawn fresh from the spring. It is a powerful stimulant of the nervous system, and its effects in contributing to restore pliability to stiffened limbs, and especially when applied in a gaseous form to the surface of the body, in alleviating paralysis, is well known.

The quantity of Nitrogen contained in the Bath waters. amounting to 97 per cent. of the gaseous matter yielded by them, is deserving of notice. Dr. Lyon Playfair, writing on the gaseous contents of the Buxton Water, observes that "the gases are nearly of the same composition as those of the thermal spring at Bath, and there is no reason to doubt that dissolved carbonic acid and nitrogen may exert important physiological effects." It is difficult to explain precisely the manner in which nitrogen, from such sources, produces a beneficial effect on the system; but that it holds important relations with the animal economy, is evident from the large proportion found in the blood, and in the organs of the animal system; and we know that articles of diet must possess a due proportion of nitrogenous matter, in order that the body may be properly nourished. But while it is not easy to point out how this gas beneficially affects the system. yet if we find a spring yielding a large proportion of nitrogen, and containing no larger amount of solid ingredients than is vielded by spring water, or ingredients, whatever may be their quantity, to which the entire good effects of the spring cannot be satisfactorily attributed, they must, it would appear of necessity be partly referred to its gaseous contents. Dr. Sutro on this point observes, that "if we see the use of a mineral water, causing distinct retrogression of anti-vital phenomena; if we perceive gouty concretions to proceed towards absorption; if we observe contracted limbs gradually to relax again, and to try feeble efforts of long forgotten exercise; if we find cutaneous harshness and rigidity to diminish, and to give way to a former softness; if we behold a resuscitated desire for muscular exertion and for mental work in a prostrate individual, and we know the spa, the originator of these changes to possess a great quantity of nitrogen, is it not legitimate to attribute to this gas part of the efficacy?" (German Mineral Waters, p. 69, 1851.)

The much frequented German spring of Wildbad having a temperature of 98° F., to which invalids resort for the cure of ailments the greater proportion of which are of the same nature as those which are cured or relieved by the Bath waters, evolves about ninety-one per cent. of Nitrogen, or six per cent. less than is yielded by the latter springs. One noticeable effect of the Wildbad waters is the restoration of flexibility to limbs stiffened by Rheumatic Paralysis, and the number of such cases which have thus been relieved by the Bath waters is very large.

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It may here be mentioned that vegetable matter is found at certain seasons of the year, floating on the surface of the mineral water, or adhering to its deposit, which consists of a Conferva, known as the *Conferva tenuissima*, first found in the Bath waters, and described by Dr. John Ford Davies. It is a very delicate plant, the filaments varying from oneeight to one ten thousandth part of an inch, in diameter.

It is not however to the presence of one or more particular ingredients in a spring, except where they are found in large proportions, that its efficacy is to be attributed, or on which its selection as a medicinal agent will depend. It is to the union of the several substances contained in the water, the quantity of fluid with which they are combined, and still more to the testimony of credible witnesses, that we must chiefly refer for instruction and guidance in the choice and employment of a mineral spring.

CHAPTER III.

THE MEDICINAL USES AND EFFECTS OF THE HOT SPRINGS.

UNDER this head, it is not intended to enter into a detailed account of the medicinal employment, and effects, of the Bath waters; but merely to give such an account, as may be useful to those who are unacquainted with them.

The several points deserving of attention admit of arrangement under the following divisions :---

DRINKING, BATHING, DOUCHING, ETC.

When the waters are DRANK fresh from the spring, they raise and accelerate the pulse, increase the temperature of the body, and excite the secretions; and these effects, which are generally manifested soon after drinking them, are more permanent than might at first be anticipated. They have a tendency to produce constipation when taken in small quantities: but the older writers mention their purgative effects; the dose however they administered, amounted to one, two, or three quarts daily, which produced two or three copious evacuations. The ordinary dose, however, will sometimes cause a like result.

The effects of the waters which indicate that they will prove beneficial by drinking of them, are, a glow of warmth in the stomach, an increased appetite, an improvement of the spirits, an augmented secretion of saliva, and an excitement of the urinary discharge; the latter constituting one of the best indications of their being likely to produce a good effect; next to which may be placed the rapidity with which they quench thirst. If however they produce head-ache, thirst, a dry tongue, a sense of weight in the stomach, diminish rather than improve the appetite, induce nausea and sickness, and fail in promoting the flow of urine, they will be of no advantage unless their tendency to cause these effects can be obviated. This may in many instances be brought about by diminishing the dose, by altering the period of the day at which they are taken, especially by relinquishing their use before breakfast. The nausea and sickness are often relieved by allowing the water to cool before it is drank, as well as by diminishing the dose. The employment of some diuretic remedy, conjointly with the water, will aid in deciding its effect so as to augment the flow of urine. But if these changes are unattended by any corresponding result, no benefit can be expected from persisting in their use.

The quantity of water to be drank during the day should,

under ordinary circumstances, be divided into two portions, one of which may be taken before breakfast, and the other in the afternoon. The usual amount taken at one time varies from four ounces to half-a-pint. It may however be increased to double that quantity, if the smaller doses do not disagree, and the case requires it. If the quantity to be drank be large, the morning and afternoon portions should be divided, ten minutes or a quarter of an hour being allowed to intervene between the divided dose; which time will be usefully occupied in gentle exercise. The water should be drank leisurely, for nothing is more likely to cause discomfort, than rapidly tossing off the quantity directed to be taken. There is no objection to drinking the waters on the same day that the bath is used.

When the waters are used as a BATH, a slight shock, accompanied with chilliness, is often experienced, on first entering the water, which soon passes away, and is succeeded by a grateful sensation of warmth. The frequency of the pulse and the temperature of the body is increased, and subsequently the amount of the urinary discharge augmented. After the use of the bath, there is a consciousness of elasticity and vigor of the frame, and the appetite is improved. The exhausting perspiration and fainting which often follow the use of warm baths of ordinary water, rarely, if ever, occur after the employment of the mineral water, neither is its use productive, under ordinary circumstances, of the copious perspiration consequent on common hot baths. In cases where

the limbs are stiffened, or contracted by Rheumatism, the power of moving them is gradually restored; in many cases it returns with remarkable quickness, by means of bathing. The same result also takes place, though more slowly, in certain cases of Palsy, in which the employment of the bath is allowable. Pain also is relieved during the use of the bath, as in Sciatica, and though it, and the stiffness of the limbs often return, at first, soon after leaving the bath, it will be observed, that the interval between employing the bath, and the recurrence of pain or stiffness, increases, until they are entirely removed. In some cases, where bathing does not disagree, and yet does not produce any very appreciable effect at the time, it is advisable, after a proper trial, to cease from using the bath, for oftentimes, when relief is not obtained during the use of the waters, it is experienced after their employment has been discontinued.

When the use of the bath is attended with marked redness of the skin, flushing of the face, and giddiness, the temperature of the water should be lowered, and the period for using it diminished, until both are adapted to the requirements of the case; but if after taking these precautions, similar effects be still produced, it will be evident that the use of the water, in this mode, must be relinquished.

The temperature of the bath, under ordinary circumstances, should not exceed 95° or 97° F. A higher degree of heat ought never to be resorted to except by special direction. The proper time for remaining in the bath, should not exceed ten minutes, or a quarter of an hour, when used for the first time : sometimes five minutes may be sufficient at first; and it is from inattention to this point, that many persons have relinquished the use of the waters, after a single trial, alarm having been created by the giddiness and flushing of the face, from incautiously remaining too long a time in the water. Provided no discomfort is experienced, the period may be extended to twenty minutes or half-anhour, according to the effect produced. Before entering the bath room, it is advisable, that the vapour which has collected during the preparation of the bath, be allowed to escape. The bather should descend gradually, into the bath, and on leaving it be enveloped in a warm sheet, covered with a warm blanket. The sheet, aided by gentle friction, absorbs the moisture from the body, and when this has been done, it should be allowed to slip down, and the warm blanket wrapped round the person; the bather may then return to the dressing room, and after being well rubbed with warm towels, proceed to dress. Where it is considered necessary to promote perspiration, the bather should immediately, on being enveloped in the sheet and blanket, proceed to the dressing room, lie down on the bed or sofa, and being wrapped in one or two warm blankets, remain there for about a quarter of an hour, then to be rubbed, and dress. The same rules should be observed on leaving the open baths. If the weather permit, it is well to walk for a short time after bathing, or else to return home in a covered vehicle.

The best time for taking a bath is early in the morning, during the warm months of the year, though it is usual to select an hour between two and five o'clock in the spring and autumn, and at an earlier hour during the winter. But it may be employed, generally at any period of the day, provided it be not soon after, or only a short time before, a meal. It may ordinarily be taken three times in the week; in some cases as often as four or five times within that period.

The above remarks are applicable only as general rules, and to be observed in employing the waters either for bathing or for drinking; but the particular circumstances of every individual case will decide to what extent a deviation from them is allowable.

Douching, &c.—Dry pumping, as the use of the Douche alone, without a bath, is termed, in contradistinction to the Wet Douche, or the employment of the douche when in the bath, may be used at any period of the day; the forenoon, however, is the most desirable time. The use of the Dry Douche is regulated by the number of strokes directed to be given. The Wet Douche is used after the bather has been for awhile in the bath, the duration of its employment being regulated in the same manner as the Dry Douche. The bather should not remain in the bath after the douching has been completed. The Douche Ascendante may be used at whatever period of the day may be most convenient. In cases of Leucorrhœa, Interrupted and Painful Menstruation, it constitutes a valuable auxiliary in restoring a healthy action. The *Lavement* is used with the most marked advantage before breakfast, and may be also beneficially used an hour or two after that meal. It is especially serviceable in cases of habitual constipation, and in cases where the regular action of the bowels has been interfered with by the injudicious and indiscriminate use of purgatives. The time however at which the douche of both kinds, and the lavement should be used, will depend on the circumstances of each case.

DISEASES IN WHICH THE WATERS ARE FOUND TO BE BENEFICIAL.

Disorders of the Digestive Organs.—Among the disorders which derive benefit from the use of the Bath waters, those of the digestive organs may first be noticed. Invalids who suffer from these affections do not generally have recourse to mineral waters until their complaints have assumed a chronic form, manifested in a pale yellow, or what is called a bilious complexion, with diminished, or an almost entire want of appetite, foul taste in the mouth, accompanied by weight and oppression, referred to the stomach, constipation or diarrhœa, with cold hands and feet, depressed spirits, and an indisposition for occupation of any kind. In such cases the Bath waters produce very beneficial effects, and where constipation is present, the occasional use of the Lavement contributes to their realization. An eminent writer on these waters has

observed, that "every medical practitioner at this place has seen instances of people labouring under want of appetite, pain and spasm of stomach and bowels, together with all the other symptoms of depraved digestion, and want of power in the proper organs to perform their functions, joined to a very great degree of weakness, both of the body and of the spirits, relieved by the use of the Bath waters. The recovery, in such cases, is particularly remarkable, for its taking place so quickly after the commencement of the trial of the remedy. A few days will frequently work such a change in the situation of the patient as would be scarcely credible, were it of less common occurrence. The appetite is often restored altogether, the wandering spasms and pain cease, the natural rest returns, and the spirits are raised to their proper pitch. The strength likewise improves daily, and the natural secretions and regularity of the body, in point of evacuations, are restored."

Interrupted Menstruation. — Among the diseases of the abdominal viscera, are certain affections of the uterine organs, namely, Interrupted Menstruation, characterised by a cadaverous complexion, depravation of appetite and digestion, languid circulation, swelling of the lower extremities, and languor of the powers both of mind and body. In such cases the waters have been found by long experience to be a most effectual remedy. The bath is generally the best form in which to use them, while the drinking of them, and the employment of the Doucke Ascendante will materially contribute to promote beneficial results. In *Painful Menstruation* also, the employment of the warm bath has been repeatedly observed to produce good effects.

In *Leucorrhoza*, also, they are useful when employed as above. In *Sterility*, when not dependant on malformation, their use was highly esteemed by many writers on the waters, even as early as the time of Guidott, and they were much frequented on this account. The bath was recommended, nor was the local application of the water omitted, which appears to have been lost sight of until its recent revival, in the form of the *Douche Ascendante*.

In Anomia, or "poverty of blood," arising from causes which induce a diminution of its colouring matter, the power of the waters in restoring it to a healthy condition, is very manifest. The effect of iron in this disease is well known; and the form in which it is found in the waters, materially assists the development of its beneficial effects.

Gout.—In this affection the waters have long been celebrated for the relief which they afford. In cases where anomalous affections of the head, stomach, and bowels, are attributable to latent gout, the use of the warm bath will bring on "a fit of gout," by which they are generally removed. It however often happens that by the repetition of acute attacks, the disturbance of the digestive organs does not subside, but harasses the sufferer, in the intervals between the paroxysms. In alleviating and removing this condition, the waters taken internally are peculiarly beneficial. They act as a cordial, without producing any heating effects; and their influence is soon shewn in an improved appetite, a more regular action of the bowels, and in the altered character of the urine. They are also meeful in cases where deposits are commencing in the joints of the hands and feet. There are however circumstances which forbid the use of the waters in this disease, and render it necessary that they should never be employed for it, but with the sanction of the medical attendant.

Rheumatism.-In this disease the greatest benefit is derived from the use of the waters. In Acute Rheumatism, after the subsidence of feverish symptoms, the employment of the tepid bath is extremely grateful, and accelerates the cure. In Subacute Rheumatism also their use is followed by In Chronic Rheumatism, after many beneficial results. remedies have failed, as numerous cases admitted into the Bath Mineral Water Hospital prove, the waters when used internally and externally, seldom fail to give relief, and very frequently effect a perfect cure. In Sciatica, and other forms of Neuralgic Rheumatism, the waters in the form of a douche, or bath, are extremely serviceable. In Rheumatic Gout, where the joints of the extremities are swollen, stiff, or contracted, the use of the baths, commencing with the temperature generally used, and rapidly increased, if the patient can bear it, together with employment of the Douche, soon produces relief. Drinking the waters, at the same time, also conduces to accelerate recovery. The amount however of benefit afforded by the waters will depend on the length of the time during which the patient has suffered from the disease. In *Rheumatic Palsy* also the usefulness of the waters is well marked.

In *Lumbago*, by the use of the douche three or four times a week, commencing with the lightest pressure, and ascending to the heaviest, the sufferer will, in most cases, be relieved in a short time.

Palsies.—In Palsy, preceded by an apoplectic fit, where the brain is involved, the use of the waters cannot, on the whole, be said to promise relief. Instances however are adduced where the contrary result appears to have taken place. Certainly the use of the waters ought not to be permitted for some time after the seizure, and not even then, except after a very careful examination of the condition of the invalid. In Palsy, arising from Cold; from the introduction of mineral substances into the system, as Lead, Arsenic, Mercury, Copper, the use of the waters has been attended with the best results, and particularly in that form of Palsy which affects the wrists of painters, gilders, and compositors, known as "dropped hands." In such cases the Bath waters have been esteemed, for many years, as a valuable remedy.

In Ischias, or Hip disease, the waters have afforded great benefit, but it is only at its early stage, that advantage can be looked for from their employment. In Chorea, or St. Vitus' Dance, bathing and douching down the whole back, several times in the week, is productive of good results.

In cases of Syphilitic, Gonorrhaal, or what is termed

Urethral Rheumatism, and Cutaneous Eruptions, attributable to a Syphilitic origin, and especially if the patient has been previously placed under the influence of mercury, the use of the waters, both by drinking, and bathing in them, is followed with beneficial effects.

Lepra, Eczema, Psoriasis, and other cutaneous diseases, are effectually relieved, and in very many instances cured by bathing. It is generally desirable in such cases to commence with a tepid bath, and gradually increase the temperature.

In Weakness of the Limbs, arising from injury; in the stiffness following the fixed position in which it is necessary to preserve fractured limbs; and in sprains; and in the contractions of the lower limbs, sometimes following severe attacks of fever; the employment of the waters, in the form of a bath or douche, is efficacious in restoring pliability to the limb, and removing pain.

During convalescence from protracted sickness, the Bath waters may be classed among the most desirable and grateful tonics which can be taken; and formerly it was almost an invariable custom for convalescents, especially for women recovering from their accouchements, to take a short course of the waters, which habit seems of late to have been relinquished without sufficient reason.

The above-mentioned diseases may be regarded as among the principal in which relief or cure may be expected from the use of the Bath waters. It would not have been difficult to increase their number, but as the object was simply to indicate some of the chief affections in which the waters are beneficial, and not to state all of them or treat fully of the medicinal effects of the remedy, a longer list or more copious account of them is not considered desirable.

THE SEASON OF THE YEAR FOR USING THE BATH WATERS.

The best seasons of the year for the use of the waters are Spring and Autumn. The months of April, May, and June, in the former period, and the close of August, and all September, and October, in the latter, are the best months to resort to their employment. It is not to be understood that the waters cannot be used in winter, should the condition of the patient demand immediate relief; but the inclemency of that season often interrupts their being regularly employed, and consequently delays the development of their curative effects, and precludes exercise in the open air which assists their action, and is used with so much advantage during the time they are employed. Reason and long experience have justified the propriety of the preference given to those portions of the year which have been mentioned as favourable for using the Mineral Waters of Bath.

CHAPTER IV.

THE BATH GENERAL OR HOT MINERAL WATER HOSPITAL.

In any work treating of the Baths of Bath, and of the Bath Waters, it would be an omission not to notice the Bath General Hospital.

This institution was established for the relief of poor persons from any part of Great Britain and Ireland afflicted with complaints for which the Bath waters are a remedy. Its erection was commenced in 1738, but it was not opened to patients until 1742, and during a period of more than a century has been the means of affording a great amount of relief to the sick and helpless. Mr. Ralph Allen, of Prior Park, delivered free of cost, from his quarries on Combe Down, all the stone required for its erection, besides contributing, on several occasions, large sums towards its maintenance. Mr. Wood, the architect, gave all the several draughts, plans, and other papers relating to the Hospital, together with his care, labour, and other expenses for surveying and directing the building, as a free gift and benefaction; and this generous action was further enhanced by the addition of a considerable donation of money. Mr. Richard Nash, better known as "Beau Nash," was unwearied in his exertions to collect subscriptions and donations, and

succeeded in a few years in obtaining more than $\pounds 2,000$ for the charity.

The number of persons admitted into this Institution, since it was first opened for the reception of patients, to the 1st of May, 1860, amounts to 39,720, of which 11,718 have been sent forth quite cured, and 19,571 much relieved. It is a NATIONAL CHARITY, and one of its peculiar features is that no interest is required to gain admittance to its advantages-no recommendation of Subscribers, Governors, or any other person. All that is required is, that the persons who desire admittance be in such a condition of life, that the expenses attendant upon a residence in Bath would be more than could be afforded by them; that they are proper objects of charity; and that the waters are applicable to their cases. The Hospital at present provides accommodation for 134 patients-86 males and 48 females. But when the alterations and additions now in progress are completed this number will be increased to about 150. They are gratuitously supplied with medical and surgical advice, food, washing, medicines, and the assistance of nurses. In consequence of the increasing number of applicants, arising from the extension of Railways and other causes, and the want of adequate accommodation, the Governors decided on making a considerable addition to the Hospital, and converting the whole of the present building into dormitories, and making such other alterations as were required. For effecting these objects it is necessary to have recourse

to the public for assistance; and as a NATIONAL, not a local charity, it has just claims upon public support. It is the only institution of its kind in the kingdom, and by its means the use of the waters is gratuitously offered to the afflicted poor of every parish, and is supported by voluntary subscriptions and donations.*

The following is a tabular statement of patients discharged between May 1, 1859, and May 1, 1860 :--- +

	Cured.	Relieved.	Incurable or no better.	Improper.	Irregular.	Dead.	Total.
Rheumatism	116	178	16	26	6	3	845
Leprosy and other Skin Diseases	30	12	3	1		1	47
Paralysis	3	30	8	22	3	1	67
Contraction and Rigidity of Parts	,,	16	3	8	1	1	29
Sciatica and Lumbago	15	15	6	1	1	,,	38
Palsy from Lead ,	14	20		1	1		36
Visceral Obstructions	1	5	2	4	.,		12
Chorea	4				"		4
Lameness and Weakness of the Limbs		2	2	1		**	5
	183	278	40	64	12	6	583

* Donations to the Ordinary, or the Building Fund, may be paid to the Registrar at the Hospital, Mr. Starr.

† Vide also "Reports of Cases treated at the Bath General Hospital," &c., by R. W. FALCONER, M.D., Bath, 1860.

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PLAN I.

B. B. Side Entrances and Lobbies.

C. Ladies' Room.

D. D. Fire Places.

E. Fountain and Bar for Drinking the Waters.

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F. Attendants' Room.

G. Store Room.

H. H. Stairs leading to the Orchestra.

K. New Entrance to the Private Baths.

L. Reclining Bath.

M. M. Dressing Rooms and Douche adjoining.

- N. Lobby.
- P. Q., P. Q., P. Q. Bath and Dressing Rooms.

R. Hot Linen Closet.

S. Vestibule.

T. Stairs leading to Public Baths.

U. U. Entrances to Public Baths from Stall Street.

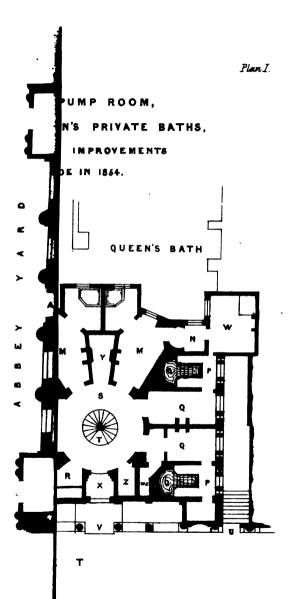
V. Entrance to Private Baths from Stall Street.

W. Shower and Vapour Bath Room.

X. Lobby.

Y. Attendants' Room.

Z. Store Room.







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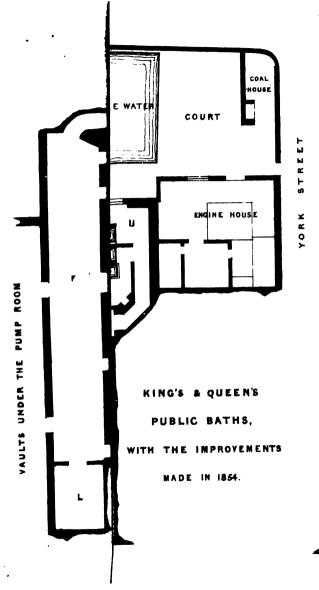
PLAN II.

- A. A. Entrance for Wheel Chairs.
- B. C. Dressing Room and Bath.
- D. E. Reclining Baths and Dressing Rooms.
- F. Corridor.
- G. Dressing Room.
- H. Bath.
- K. Reclining Bath and Dressing Room.
- L. Cellar.
- M. M. Passage.
- N. Dressing Room.
- O. O. Entrances from Stall Street.
- P. Q. R. Dressing Rooms.
- S. S. S. Steps into the Bath.
- T. Reclining Bath and Dressing Room.

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- U. Dressing Room.
- V.V.V. Offices.



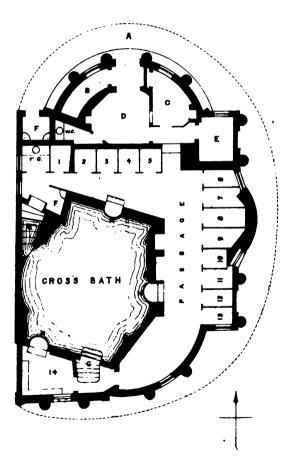
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PLAN III.

- A. Entrance.
- B. Coal Cellar.
- C. Attendants' Room.
- D. Lobby.
- E. Closet.
- F. F. Urinals.
- G. G. Steps into the Bath.
- H.H. Entrances to Bath for Plunging from.
- 1 to 13. Private Dressing Rooms.
- 14. Public Dressing Room.

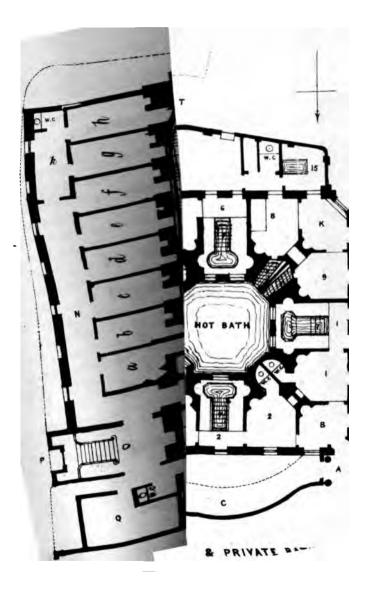


THE CROSS BATH.

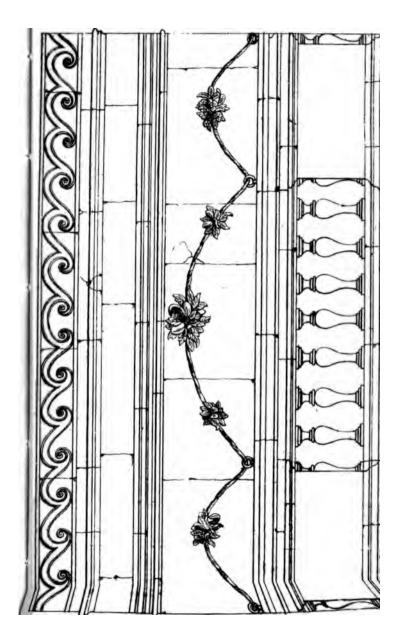
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PLAN IV.

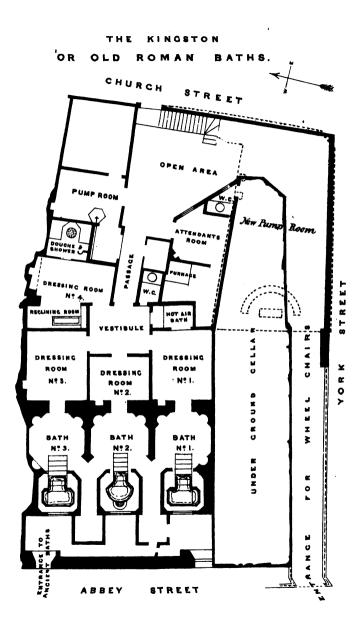
- A. Entrance to Royal Private Baths.
- B. Lobby.
- C. Covered Entrance.
- D. Vestibule.
- E. Corridor.
- F. Yard.
- G. Lobby.
- H. Entrance to Hot Bath.
- K. Lobby.
- L. Open Area.
- M. Passage to Swimming Bath.
- N. Corridor.
- O. Lobby.
- P. Entrance from Bath Street to Swimming Bath.
- Q. Coal Cellar.
- R. Engine Room.
- S. Laundry.
- T. Hot Closet.
- U. Yard.
- V. Attendants' Room.
- W. Pump.
- X. Shower Bath.
- 1. 1. Bladud's Bath and Dressing Room.
- 2. 2. Alfred's Bath and ditto.
- 3. 3. Dressing and Douche Room.
- 4.4. Dressing Room and Chair Bath.
- 5. 5. Ditto, and Lavement Room.
- 6. 6. Edwin's Bath and Dressing Room.
- 7. 7. 7. Steps into the Baths.
- 8. Reclining Bath.
- 9. Dressing Room.
- 10. Bath.
- 11. 12. Bath and Dressing Room.
- 13. 14. Ditto Ditto
- 15. Reclining Bath.
- a. to f. Private Dressing Rooms.
- g. h. k. Public ditto.



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Shortly will be Published,

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THE MEDICINAL USES OF THE BATH WATERS, in RHEUMATISM, GOUT, PARALYSIS, &c., &c. By R. W. FALCONER, M.D., M.R.C.P., Lond.; Phys. to the Bath United and Bath General Hospitals, &c., &c.

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